

Table 1. Water Chemistry for samples collected in the central Aleutian Islands, August 11–20, 2015.

[Concentrations of aluminum (Al), arsenic (As), boron (B), barium (Ba), bromide (Br), calcium (Ca), cadmium (Cd), chlorine; chloride (Cl), cobalt (Co), chromium (Cr), copper (Cu), fluorine (F), iron (Fe), bicarbonate (HCO_3), potassium (K), lithium (Li), manganese (Mn), molybdenum (Mo), sodium (Na), ammonia (NH_3), nickel (Ni), nitrate (NO_3), phosphate (PO_4), rubidium (Rb), selenium (Se), silica (SiO_2), sulfate (SO_4), strontium (Sr), zinc (Zn) listed in milligrams per liter. Type refers to type of hydrothermal feature sampled; hot spring (HS), fumarole (F), mud posts (MP). Temperature is listed in degrees Celsius. Total dissolved solids (TDS); delta deuterium (δD); $^{18}\text{O}/^{16}\text{O}$ in sample compared to that of standard mean ocean water ($\delta^{18}\text{O}$); per mil, parts per million]

Sample	Location Note	Date	Type	Temp	pH (L)	Al	As	B	Ba	Br	Ca	Cd	Cl	Co	Cr	Cu	F	Fe	HCO_3	K	Li	Mg	Mn	Mo	Na	NH_3	Ni	NO_3	PO_4	Rb	Se	SiO_2	SO_4	Sr	Zn	TDS	Cation	Anion	Balance, in percent	δD (per mil)	$\delta^{18}\text{O}$ (per mil)
Akutan Volcano																																									
AK-02	Lower area	8/17/15	HS	100	7.93	<0.011	1.61	25.1	0.038	3.79	72.7	<0.011	1130	<0.011	<0.011	<0.011	0.67	0.06	41.3	49.1	1.7	2.1	0.15	<0.011	635	na	<0.011	<0.01	<0.01	0.269	<0.055	169	56	1.080	<0.022	2190	33.0	33.8	-2.7	-65.87	-8.12
AK-03	Lower area- group B	8/17/15	HS	76.3	6.51	<0.011	1.05	15.9	0.022	2.28	44.5	<0.011	706	<0.011	<0.011	<0.011	0.52	0.86	120	37.9	1.3	4.0	0.25	<0.011	425	na	<0.011	<0.01	0.040	0.173	<0.055	141	30	0.554	<0.022	1530	22.0	22.6	-1.5	-67.53	-9.01
AK-04	Lower area- group A	8/17/15	HS	89.4	6.71	<0.011	1.54	24.5	0.039	3.17	44.7	<0.011	985	<0.011	<0.011	<0.011	0.64	0.08	113	50.8	1.9	3.6	0.22	<0.011	607	na	<0.011	<0.01	0.010	0.261	<0.055	173	39	0.638	<0.022	2050	30.0	30.5	-0.2	-67.51	-8.48
AK-05	Lower area- group A	8/17/15	HS	67	6.77	<0.005	0.78	15.1	0.037	1.95	44.5	<0.005	615	<0.005	<0.005	<0.005	0.31	0.99	111	32.8	1.1	6.5	0.27	<0.005	360	na	<0.005	<0.01	0.020	0.158	<0.025	118	24	0.444	<0.01	1330	19.0	19.7	-1.1	-67.78	-9.16
AK-09	Upper area	8/21/15	spring	26	2.49	17.6	<0.005	0.2	0.034	<0.01	85.6	<0.005	4.0	<0.005	<0.05	<0.005	0.11	97.10		8.0	0.0	30.6	2.67	<0.005	52	28.3	<0.005	<0.01	0.080	<0.05	<0.025	300	1000	0.298	0.120	1640	21.0	21.1	0.9	-39.34	-2.64
AK-11	Upper area	8/21/15	MP	69	2.70	10.1	<0.005	0.1	0.047	<0.01	60.0	<0.005	1.6	<0.005	<0.05	<0.005	0.18	29.60		4.0	0.0	21.3	2.17	<0.005	17.0	80	<0.005	0.010	0.170	<0.05	<0.025	205	720	0.300	0.100	1150	15.0	15.0	-1.4	-25.63	1.94
AK-12	Upper area	8/21/15	spring	18.6	6.48	<0.001	<0.001	0.0	0.008	0.01	6.9	<0.001	6.2	<0.001	<0.001	<0.001	0.07	0.00	26.4	0.7	<0.001	1.9	<0.001	<0.001	5.5	0.200	<0.001	<0.01	<0.01	<0.005	23	11	0.041	<0.002	82	0.8	0.8	-7.8	-68.12	-9.78	
Fisher Caldera																																									
FI-03	Hot spring valley	8/19/15	HS	48.3	6.43	<0.005	0.21	2.1	0.053	0.85	70.2	<0.005	239	<0.005	<0.005	<0.005	0.50	3.17	645	27.2	0.2	108.0	0.06	<0.005	261	na	<0.005	<0.01	<0.01	0.057	<0.025	195	340	0.331	<0.01	1890	25.0	24.3	1.1	-61.14	-8.22
FI-04	Hot spring valley	8/19/15	HS	46	6.43	<0.005	0.17	2.0	0.044	0.76	69.4	<0.005	217	<0.005	<0.005	<0.005	0.54	3.50	572	25.9	0.2	90.1	0.09	<0.005	243	na	0.006	<0.01	0.020	0.051	<0.025	182	330	0.318	<0.01	1740	22.0	22.4	-0.3	-63.37	-8.27
FI-05	Hot spring valley	8/19/15	stream	24	7.07	<0.002	0.05	1.3	0.021	0.34	42.7	<0.002	106	<0.002	<0.002	<0.002	0.73	0.29	403	10.4	0.1	62.0	0.18	0.002	120	na	0.003	<0.01	0.010	0.020	<0.01	79	150	0.167	0.004	972	13.0	12.6	0.9	-67.2	-9.16
FI-06	Turquoise (Acid) lake	8/20/15	lake	14.4	1.73	10.0	0.58	3.0	0.067	2.47	85.9	<0.011	890	<0.011	<0.02	<0.011	0.69	9.26		101.0	0.9	3.9	2.82	<0.011	436	0.200	<0.011	<0.01	<0.01	0.390	<0.055	188	1100	0.886	0.077	2800	47.0	47.1	-1.2	-54.15	-6.6
FI-07	West Metrogooon lake	8/20/15	lake	12.7	6.85	<0.001	<0.001	0.0	<0.001	0.02	1.3	<0.001	7.1	<0.001	<0.001	<0.002	0.03	<0.003	13	0.5	<0.001	0.9	<0.001	<0.001	5.4	na	<0.001	<0.01	0.030	<0.01	<0.005	2	2	0.005	0.003	33	0.382	0.46	-18.4	-61.19	-8.44
Geyser Bight																																									
GB-02	Upper area-high	8/16/15	HS	47	3.01	3.0	<0.002	<0.01	0.126	<0.01	21.4	<0.002	2.6	0.021	<0.002	0.057	0.08	0.22		2.1	0.0	14.3	1.03	<0.002	7.5	0.900	0.011	<0.01	<0.01	<0.02	<0.01	78	200	0.178	0.104	334	4.0	4.3	-6.2	-53.87	-1.17
GB-05	Upper area - lower	8/16/15	HS	94	5.26	0.02	0.01	0.0	0.033	<0.01	7.4	<0.002	3.2	0.004	<0.002	0.003	0.03	0.43	2.9	1.8	<0.002	4.4	0.30	<0.002	7.7	0.900	&														